



POLAR UV
Disinfection Systems

CONTROL YOUR OWN WATER QUALITY!

If you are unsure of the microbiological quality of your source water or if you are looking for additional security from your municipal water source, then 2M has the solution in the POLAR UV DISINFECTION SYSTEMS series of residential UV systems.

UV technology is proven to control microbiological (bacteria & virus) issues in water including E.coli, Cryptosporidium and Giardia lamblia.

POLAR UV DISINFECTION SYSTEMS provides the ultimate in UV protection for your home with the inclusion of a true 254nm Teflon® based UV sensor that continuously monitors the performance of the UV system and displaying the output via a color screen. In addition to UV output, diagnostics, system status, warnings, even QR codes are included.

With the integral expandability port, the addition of a 4-20mA output or a solenoid valve is a simple plug-and-play option!

PRODUCT FEATURES

- Free floating (no cable twist), keyed-in-place, 254nm Teflon® based UV sensor continuously measures and displays UV output (as a %) (std. on HWUV6, optional on HWUV5)
- Color screen controller with Lightlock™ for protected lamp replacement, includes QR codes, full diagnostics & warnings
- “Future-proof” expandability port for future upgrades & options
- Axial flow, 304 stainless steel polished reactors, designed & manufactured to ASME pressure vessel standards
- User friendly bayonet style lamp connector (quick ¼ turn removal with no extra tools needed)
- Reliable, industry proven, proprietary low pressure coated UV lamps with ceramic bases for durability & long life (9,000 hours)
- Constant current electronic controller (one controller for all LP units) in a splash proof case, fully potted ballast virtually eliminates common water damage issue
- Full customization available as an option (language, home screen, phone number, QR codes, etc.)

MODELS

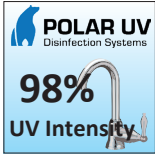
Point-of-Use (POU)

HWUV5/6-2 series, for flow rates of 8 lpm (2 gpm)
HWUV5/6-3 series, for flow rates of 11 lpm (3 gpm)

Point-of-Entry (POE)

HWUV5/6-6 series, for flow rates of 23 lpm (6 gpm)
HWUV5/6-11 series, for flow rates of 41 lpm (11 gpm)
HWUV5/6-15 series, for flow rates of 57 lpm (15 gpm)
HWUV5/6-21 series, for flow rates of 79 lpm (21 gpm)

SAMPLE SCREENS



Maintenance Parts
 Lamp: HWUV-L820
 Sleeve: HWUV-Q820
 Sensor: HWUV-S1
 Controller: HWUV56-C

POLAR UV 5.1/6.1 HO - Equipment Specifications

POLAR UV-HO, Multi-use UV Systems					
Model	HWUV5-5C HWUV6-5C	HWUV5-10C HWUV6-10C	HWUV5-15C HWUV6-15C	HWUV5-25C HWUV6-25C	HWUV5-40C HWUV6-40C
Flow Rate (30mJ/cm ²) @ 95% UVT)	5 GPM	10 GPM	15 GPM	25 GPM	40 GPM
	18.91 lpm	37.9 lpm	57 lpm	95 lpm	151 lpm
	1.1 m ³ /hr	2.3 m ³ /hr	3.4 m ³ /hr	5.7 m ³ /hr	9.3 m ³ /hr
Flow Rate (16mJ/cm ²) @ 95% UVT)	8 GPM	19 GPM	27 GPM	47 GPM	78 GPM
	30.3 lpm	71.9 lpm	102.2 lpm	178 lpm	295 lpm
	1.8 m ³ /hr	4.3 m ³ /hr	6.1 m ³ /hr	10.7 m ³ /hr	17.7 m ³ /hr
Flow Rate (40mJ/cm ²) @ 95% UVT)	3 GPM	7 GPM	11 GPM	19 GPM	31 GPM
	11.4 lpm	26.5 lpm	41 lpm	72 lpm	117 lpm
	0.7 m ³ /hr	1.6 m ³ /hr	2.5 m ³ /hr	4.3 m ³ /hr	7.0 m ³ /hr
Port Size	1/2"MNPT	3/4"MNPT	1"MNPT	1"MNPT	1 1/2"MNPT
Electrical	90-265V/50-60Hz.				
Plug Type	American, Nema 5/15, 3 wire for all 110V systems				
Lamp Watts	18	34	45	67	101
Power (Watts)	20 (19 @ 230V)	38 (36 @ 230V)	57 (48 @ 230V)	73 (72 @ 230V)	115 (108 @ 230V)
Replacement Lamp	HWUV-L210C	HWUV-L330C	HWUV-L420C	HWUV-L600C	HWUV-L950C
Replacement Sleeve	HWUV-Q210	HWUV-Q330	HWUV-Q420	HWUV-Q600	HWUV-Q950
Chamber Material	316L Stainless Steel, A249 Pressure Rated Tubing, Polished & Passivated				
Reactor Dimensions	3.5 x 11.7" (8.9 x 29.8cm)	3.5 x 16.5" (8.9 x 41.8cm)	3.5 x 20.0" (8.9 x 50.8cm)	3.5 x 26.9" (8.9 x 68.3cm)	3.5 x 40.7" (8.9 x 103.4cm)
Controller Dimensions	8.6 x 4.2 x 3.5" (21.7 x 10.8 x 8.9cm)				
Operating Pressure	0.7-10.3 bar (10-150 psi)				
Operating Water Temp	2-40° C (36-104° F)				
UV Monitor	Yes, RSHO-B3.5				
Solenoid Output	YES (but requires optional solenoid module)				
Dry Contacts	YES (but requires optional remote alarm module)				
4-20mA Output	YES (but requires optional 4-20mA module)				
Lamp Change Reminder (audible & visual)	YES				
Lamp Out Indicator (audible & visual)	YES				
Shipping Weight	4.5 kg (9.9 lbs)	5.4 kg (11.9 lbs)	6.0 kg (13.2 lbs)	7.2 kg (15.9 lbs)	9.7 kg (21.4 lbs)
List Price (US) HWUV5/6-C	\$905/\$1,352	\$987/\$1,360	\$1,136/\$1,602	\$1,231/\$1,705	\$1,810/\$2,275

OPTIONAL EQUIPMENT MODULES



UV CONCIERGE

Available for WEB, IOS, and Android platforms providing live, dynamic feedback on all features and functions of your UV system.



WATER QUALITY MONITOR

Installs on all POLAR UV systems and allows for remote monitoring of all major and minor alarms that take place on the main UV system. Three LED's visually display system functionality from up to 150' (46m) away.



CUSTOM DEALER PROGRAMMER

Customize your UV controller with your own company name, logo, website, QR code and contact information. Capture the lucrative replacement lamp market by creating a direct link back to your own website!



SOLENOID MODULE

Used to power a remote normally closed solenoid valve (not included). Solenoid will close on lamp failure or when low UV conditions are detected by the sensor. Available in 110V. (MOD-SOL1-HWUV)



TRV (temperature management relief valve)

TRV allows for a small amount of water to be physically released (dumped) from the UV unit to allow for cooling of the water. Used in applications of extended "no flow" conditions, or when the temperature of the treated water is of a critical nature.



COOLING FAN

To reduce water temperature inside the reactor through mechanics and convection without wasting any water. Runs independently and continuously. Comes with a compact modular power adapter with interchangeable AC clips that operates from 90-264V (47-63Hz.)



4-20MA MODULE

Used for signal transfer to a remote device such as a data logger or computer. Order MOD-420-HWUV.



REMOTE ALARM (DRY CONTACT) MODULE

Used for signal transfer to a remote alarm or dry contacts. Order MOD-RAM-HWUV.



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LEGENDARY SERVICE

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